

THE LEADER IN ENVIRONMENTAL TESTING

# **ANALYTICAL REPORT**

TestAmerica Laboratories, Inc.

TestAmerica Nashville 2960 Foster Creighton Drive Nashville, TN 37204 Tel: (615)726-0177

TestAmerica Job ID: 490-2442-1

Client Project/Site: NPDES Permit MA0000833

For:

Exxon Global Remed. Grp 52 Beacham Street Everett, Massachusetts 02149

Attn: Mr. Ernest E Haynes

Hais a chaze

Authorized for release by: 7/26/2012 10:19:51 AM

Gail Lage Senior Project Manager gail.lage@testamericainc.com

·····LINKS ·······

Review your project results through

Total Access

**Have a Question?** 



Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Exxon Global Remed. Grp Project/Site: NPDES Permit MA0000833 TestAmerica Job ID: 490-2442-1

# **Table of Contents**

Cover Page	1
Table of Contents	2
Sample Summary	3
Case Narrative	
Definitions	5
Client Sample Results	6
QC Sample Results	10
QC Association	11
Chronicle	12
Method Summary	13
Certification Summary	14
Chain of Custody	15
Receipt Chacklists	18

\_\_\_

6

8

9

11

12

# **Sample Summary**

Matrix

Wastewater

Wastewater

Wastewater

Wastewater

Client: Exxon Global Remed. Grp Project/Site: NPDES Permit MA0000833

Client Sample ID

Outfall 01 A - TSS-1

Outfall 01 A - TSS-2

Outfall 01 A - TSS-3

Outfall 01 A

Lab Sample ID

490-2442-1

490-2442-2

490-2442-3

490-2442-4

TestAmerica Job ID: 490-2442-1

Collected	Received
07/18/12 19:15	07/20/12 08:30
07/18/12 19:15	07/20/12 08:30

07/18/12 19:15

07/18/12 19:15

3

Δ

5

07/20/12 08:30

07/20/12 08:30

6

8

9

4 4

4.6

#### **Case Narrative**

Client: Exxon Global Remed. Grp Project/Site: NPDES Permit MA0000833 TestAmerica Job ID: 490-2442-1

Job ID: 490-2442-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-2442-1

#### Receipt

The samples were received on 7/20/2012 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.2° C.

#### **General Chemistry**

Method(s) SM 2540D: The matrix duplicate %RPD for TSS associated with batch 7349 was outside the control limits due to non homogeneity of the sample.

4

6

\_

9

10

46

# **Definitions/Glossary**

Client: Exxon Global Remed. Grp Project/Site: NPDES Permit MA0000833

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 490-2442-1

#### Glossary

TEQ

These commonly used abbreviations may or may not be present in this report.
Listed under the "D" column to designate that the result is reported on a dry weight basis
Percent Recovery
Contains no Free Liquid
Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
Estimated Detection Limit
United States Environmental Protection Agency
Method Detection Limit
Minimum Level (Dioxin)
Not detected at the reporting limit (or MDL or EDL if shown)
Practical Quantitation Limit
Quality Control
Reporting Limit
Relative Percent Difference, a measure of the relative difference between two points
Toxicity Equivalent Factor (Dioxin)

5

6

7

8

9

10

11

12

Client: Exxon Global Remed. Grp Project/Site: NPDES Permit MA0000833 TestAmerica Job ID: 490-2442-1

Client Sample ID: Outfall 01 A - TSS-1 Lab Sample ID: 490-2442-1

Date Collected: 07/18/12 19:15 Matrix: Wastewater

Date Received: 07/20/12 08:30

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	41.3		3.33	2.00	mg/L			07/21/12 08:58	1

4

R

9

1 1

12

Client: Exxon Global Remed. Grp

Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: 490-2442-1

Client Sample ID: Outfall 01 A - TSS-2 Lab Sample ID: 490-2442-2

Date Collected: 07/18/12 19:15 Date Received: 07/20/12 08:30

**Matrix: Wastewater** 

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	44.0		4.00	2.40	mg/L			07/21/12 08:58	1

Client: Exxon Global Remed. Grp

Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: 490-2442-1

Client Sample ID: Outfall 01 A - TSS-3

Lab Sample ID: 490-2442-3

Date Collected: 07/18/12 19:15

Matrix: Wastewater

Date Received: 07/20/12 08:30

General Chemistry										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Pi	repared	Analyzed	Dil Fac
Total Suspended Solids	45.6		4.00	2.40	mg/L				07/21/12 08:58	1

4

5

6

8

9

4 4

12

Client: Exxon Global Remed. Grp

Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: 490-2442-1

Lab Sample ID: 490-2442-4

Matrix: Wastewater

Client Sample ID: Outfall 01 A
Date Collected: 07/18/12 19:15
Date Received: 07/20/12 08:30

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	<1.40		4.00	1.40	mg/L		07/23/12 08:15	07/23/12 08:15	1

Δ

5

6

8

9

4 4

12

TestAmerica Job ID: 490-2442-1

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 7520

Prep Batch: 7520

Client: Exxon Global Remed. Grp Project/Site: NPDES Permit MA0000833

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 490-7520/1-A

**Matrix: Water** 

**Analysis Batch: 7522** 

мв мв

Result Qualifier RL MDL Unit Analyte D Prepared Analyzed Dil Fac 4.00 1.40 mg/L 07/23/12 08:15 07/23/12 08:15 Oil & Grease (HEM) <1.40

> Spike Added

> > 41.7

Lab Sample ID: LCS 490-7520/2-A

**Matrix: Water** 

**Analysis Batch: 7522** 

Analyte

Oil & Grease (HEM)

Lab Sample ID: LCSD 490-7520/3-A

**Matrix: Water** 

**Analysis Batch: 7522** 

Analyte

Client Sample ID: Lab Control Sample Dup

Unit

mg/L

LCS LCS

38.13

Result Qualifier

Prep Type: Total/NA

%Rec

91

Client Sample ID: Lab Control Sample

Limits

78 - 114

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Batch: 7520

%Rec. RPD

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Spike LCSD LCSD Added Result Qualifier Unit D %Rec Limits **RPD** Limit Oil & Grease (HEM) 41.7 38.33 mg/L 78 - 114

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 490-7349/1

**Matrix: Water** 

**Analysis Batch: 7349** 

MB MB

Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared <0.600 1.00 07/21/12 08:58 Total Suspended Solids 0.600 ma/L

LCS LCS

Lab Sample ID: LCS 490-7349/2

**Matrix: Water** 

**Analysis Batch: 7349** 

Spike %Rec. Added Result Qualifier Unit Limits Analyte D %Rec Total Suspended Solids 100 98 97.80 mg/L 90 - 110

Lab Sample ID: LCSD 490-7349/25

**Matrix: Water** 

**Analysis Batch: 7349** 

LCSD LCSD %Rec. RPD Spike Added Result Qualifier RPD Analyte Unit D %Rec Limits Limit **Total Suspended Solids** 100 104.1 mg/L 104 90 - 110 20

TestAmerica Nashville 7/26/2012

# **QC Association Summary**

Client: Exxon Global Remed. Grp Project/Site: NPDES Permit MA0000833 TestAmerica Job ID: 490-2442-1

#### **General Chemistry**

#### Analysis Batch: 7349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-2442-1	Outfall 01 A - TSS-1	Total/NA	Wastewater	SM 2540D	
490-2442-2	Outfall 01 A - TSS-2	Total/NA	Wastewater	SM 2540D	
490-2442-3	Outfall 01 A - TSS-3	Total/NA	Wastewater	SM 2540D	
LCS 490-7349/2	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 490-7349/25	Lab Control Sample Dup	Total/NA	Water	SM 2540D	
MB 490-7349/1	Method Blank	Total/NA	Water	SM 2540D	

#### Prep Batch: 7520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-2442-4	Outfall 01 A	Total/NA	Wastewater	1664A	
LCS 490-7520/2-A	Lab Control Sample	Total/NA	Water	1664A	
LCSD 490-7520/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	
MB 490-7520/1-A	Method Blank	Total/NA	Water	1664A	

#### Analysis Batch: 7522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-2442-4	Outfall 01 A	Total/NA	Wastewater	1664A	7520
LCS 490-7520/2-A	Lab Control Sample	Total/NA	Water	1664A	7520
LCSD 490-7520/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	7520
MB 490-7520/1-A	Method Blank	Total/NA	Water	1664A	7520

4

\_\_\_\_\_

7

8

9

10

1:

Client: Exxon Global Remed. Grp

Project/Site: NPDES Permit MA0000833

Lab Sample ID: 490-2442-1

**Matrix: Wastewater** 

Client Sample ID: Outfall 01 A - TSS-1

Date Collected: 07/18/12 19:15 Date Received: 07/20/12 08:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	7349	07/21/12 08:58	BK	TAL NSH

Client Sample ID: Outfall 01 A - TSS-2 Lab Sample ID: 490-2442-2

Date Collected: 07/18/12 19:15 **Matrix: Wastewater** 

Date Received: 07/20/12 08:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	7349	07/21/12 08:58	BK	TAL NSH

Client Sample ID: Outfall 01 A - TSS-3 Lab Sample ID: 490-2442-3

Date Collected: 07/18/12 19:15 **Matrix: Wastewater** 

Date Received: 07/20/12 08:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	7349	07/21/12 08:58	BK	TAL NSH

Client Sample ID: Outfall 01 A Lab Sample ID: 490-2442-4 **Matrix: Wastewater** 

Date Collected: 07/18/12 19:15

Date Received: 07/20/12 08:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	1664A		1	7522	07/23/12 08:15	BD	TAL NSH
Total/NA	Prep	1664A			7520	07/23/12 08:15	BD	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

# **Method Summary**

Client: Exxon Global Remed. Grp Project/Site: NPDES Permit MA0000833

**Method Description** 

HEM and SGT-HEM

Solids, Total Suspended (TSS)

TestAmerica Job ID: 490-2442-1

TAL NSH

Protocol	Laboratory
 1664A	TAL NSH

SM

Protocol	References:

Method

1664A

SM 2540D

1664A = EPA-821-98-002

SM = "Standard Methods For The Examination Of Water And Wastewater",

#### Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TestAmerica Job ID: 490-2442-1

Client: Exxon Global Remed. Grp Project/Site: NPDES Permit MA0000833

#### Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	ACIL		393	10-30-12
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alabama	State Program	4	41150	05-31-13
Alaska (UST)	State Program	10	UST-087	07-24-12
Arizona	State Program	9	AZ0473	05-05-13
Arkansas DEQ	State Program	6	88-0737	04-25-13
California	NELAC	9	1168CA	10-31-12
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Colorado	State Program	8	N/A	02-28-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAC	4	E87358	06-30-13
Illinois	NELAC	5	200010	12-09-12
lowa	State Program	7	131	05-01-14
Kansas	NELAC	7	E-10229	10-31-12
Kentucky	State Program	4	90038	12-31-12
Kentucky (UST)	State Program	4	19	09-15-13
Louisiana	NELAC	6	LA110014	12-31-12
Louisiana	NELAC	6	30613	06-30-13
Maryland	State Program		316	03-31-13
Massachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAC	5	047-999-345	12-31-12
	State Program		N/A	06-30-13
Mississippi Mentana (UST)	State Program	8	N/A NA	
Montana (UST)	· ·		NA TN00032	01-01-15
Nevada	State Program	9		07-31-12
New Hampshire	NELAC	1	2963 TN005	10-09-12
New Jersey	NELAC	2	TN965	06-30-13
New York	NELAC	2	11342	04-01-13
North Carolina DENR	State Program	4	387	12-31-12
North Dakota	State Program	8	R-146	06-30-13
Ohio VAP	State Program	5	CL0033	01-19-14
Oklahoma	State Program	6	9412	08-31-12
Oregon	NELAC	10	TN200001	04-30-13
Pennsylvania	NELAC	3	68-00585	06-30-13
Rhode Island	State Program	1	LAO00268	12-30-12
South Carolina	State Program	4	84009 (001)	02-28-13
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAC	6	T104704077-09-TX	08-31-12
USDA	Federal		S-48469	11-02-13
Utah	NELAC	8	TAN	06-30-13
Virginia	NELAC	3	460152	06-14-13
Washington	State Program	10	C789	07-19-12
West Virginia DEP	State Program	3	219	02-28-13
Wisconsin	State Program	5	998020430	08-31-12
Wyoming (UST)	A2LA	8	453.07	12-31-13

3

4

9

10

11

12

#### COOLER RECEI



490-2442 Chain of

199 2 112 611411 61	
Cooler Received/Opened On 7/20/2012 @ 0830	
1. Tracking #(last 4 digits, FedEx)	
Courier: FedEx IR Gun ID 14740456	
2. Temperature of rep. sample or temp blank when opened: Degrees Celsius	
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen?	YES NON
4. Were custody seals on outside of cooler?	YES(O.)NA
If yes, how many and where:	
5. Were the seals intact, signed, and dated correctly?	YESNONA
6. Were custody papers inside cooler?	ESNONA
I certify that I opened the cooler and answered guestions 1-6 (intial)	
7. Were custody seals on containers: YES (NO) and Intact	YESNONA
Were these signed and dated correctly?	YESNONA
8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Pape	er Other None
9. Cooling process: (Ce   Ice-pack   Time (direct contact)   Dry ice	e Other None
10. Did all containers arrive in good condition (unbroken)?	ESNONA
11. Were all container labels complete (#, date, signed, pres., etc)?	VESZ.NONA
12. Did all container labels and tags agree with custody papers?	YESNONA
13a. Were VOA vials received?	YESÑONA
b. Was there any observable headspace present in any VOA vial?	YESNONA
14. Was there a Trip Blank in this cooler? YESNO If multiple coolers, sequer	nce #
I certify that I unloaded the cooler and answered questions 7-14 (intial)	Œ.
15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level?	YESNO.NA
b. Did the bottle labels indicate that the correct preservatives were used	YES NO NA
16. Was residual chlorine present?	YESNOMA
I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial)	_ <i>E</i> _
17. Were custody papers properly filled out (ink, signed, etc)?	ESNONA
18. Did you sign the custody papers in the appropriate place?	ESNONA
19. Were correct containers used for the analysis requested?	(ESZ.NONA
20. Was sufficient amount of sample sent in each container?	YES).NONA
I certify that I entered this project into LIMS and answered questions 17-20 (intial)	
I certify that I attached a label with the unique LIMS number to each container (intial)	E
21. Were there Non-Conformance issues at login? YES 100 Was a PIPE generated? YES	<b>√</b> 0.#

TestAmerica

2960 Foster Creighton Nashville Division

Toll Free: 800-765-0980 Phone: 615-726-0177

Fax: 615-726-3404

THE LEADER IN ENVIRONMENTAL TESTING Nashville, TN 37204

Consultant Name: ExxonMobil Everett Terminal
Address: 32 Beacham Street
City/State/Zip: Everett, MA 02149

Consultant Telephone Number: 617-381-2802
Sampler Name: (Print) Frank (43)030

Fax No.: 617-381-2954

PROJECT #: NPDES Permit MA00000833
Facility ID #
Site Address SAME
City, State, Zip
Regulatory District (CA)

Sampler Signature:

ExxonMobil Project Mgr: Emest Haynes

Consultant Project Mgr: Triumvirate - Sandra Perry (Call Visoth at (617) 799 - 4357 for sample related questions)

Invoice To: (ExxonMobil PM unless otherwise indicate Report To: spern/@htminmvirate com: emest e l	TA Account #:	EXONM
harnes@avvonmohil.com		000
	To: (ExxonMobil Pt	nt#: 3 To: (ExxonMobil PM unless otherwise ir

	Date	7-18-12	Date		PLEASE SEE ATTACHED ML REQUIREMENTS										<del>\</del>			7/18/12 19:15			
	=	8	Time		TACHED N										,	_		15	No. of Containers Shipped		
	Time	2010	ne		1L REC								T	×		×	×	×	Grab		
S. P.	Received	7	Received by,		UIREMI														Composite		
1	ed by TestAmer	H	ý		STN														Field Filtered		
\	Į§.				:						$\Box$		I						Methanol		_
•	18	15	1				_	<u> </u>	ļ	<u> </u>	_	<u> </u>	╧		_		_	<u> </u>	Sodium Bisulfate	]	
	۱۴	~°	•			-	+	-	<del> </del>	+-	╄	ļ	Ļ	$\perp$	_				HCI (Blue Label)	P.	
/)		-		i				ـ	1	╀	<del> </del>	+	-		_		<u> </u>	ļ	NaOH ( Orange Label)	Perservative	
1	17			i		$\vdash$	+	┼	┼	╁	╀	<del></del>	-		$\dashv$			-	H <sub>2</sub> SO <sub>4</sub> Plastic (Yellow Label)	Αŧ	
16	'			:			+	╁	$\vdash$	+-	+	╁	╁	<u>×</u>	+				H <sub>2</sub> SO <sub>4</sub> Glass(Yellow Label) HNO <sub>3</sub> (Red Label)	l <sup>®</sup>	
51				į ,		<u> </u>	+-	╁	╁	١	+-	+	╁	+	┪	×	×	×	None (Black Label)	-	
						-	+-		一	+	┼─	+-	╁	+	+	-		<u> </u>	Groundwater	┝	
9	-	<u> </u>		1	i		+	-	+	+-	-	+	╁╴	×	-			×		ł	
7		1	ı		:	-	╁		-	+-	+	┼—	+		-	×	×	<u> </u>	Wastewater		
رلا	Date	00	Date			-	╂-	┢	┢	┼	⊬	$\vdash$	-		-1	픙	근	_	Drinking Water	Matrix	
Y	"	7-18-12	"]	:	i	-	╀-	ļ	-	-	├	<del> </del>	╀	_	4	5	5		Sludge	Α,	
工			_			-	-	_	<u> </u>	<u> </u>	<u> </u>		$\perp$	_	_ ;	ਰ੍ਹੀ	ਰ੍ਹੇ		Soil		
$\mathcal{Q}'$	_ [	Į,		i			_			<u> </u>		<u> </u>	<u> </u>		_[	9	an		Other (specify):		
بن	ם .	20%	=	٠.	i				l			1			Ş	HOLD for analysis	HOLD for analysis	×	· ·	_	İ
ナダヨのご	Time	Q.	Time			-	ļ	_	_	<u> </u>	<u> </u>	-	1	_	_[	ž.	Ř.		TSS - SM 2540D	Monthly	
U			1										1	×					O&G	thly	
1 0	ᅳᆫ	गट	딢				╀╌	<u> </u>	_	<del> </del>	-	├	-	+	+				by EPA 1664A	_	ĺ
by phone or faxthat a rush sample will be submitted.	consultant to notifythe TestAmerica Project Manager	Level 2	QC Deliverables (please circle one)		Laboratory Comments:																
faxtha	to notify		ables (p		/ Comr							-		-	1						
at ar	the		eas	≲ &	nen Te	-	$\vdash$							+	+		-			اع	
s usn.	Test/		e circ	Sample Containers Intact? VOCs Free of Headspace?	ents: Temperature Upon Receipt	<u> </u>						١ .	L	$\perp$						Quarterly	
ample	ment	il.	e one	Cont	ature							Loc: 490			ı	Ì	l		Carrier appropriate to the same and	۲	Ans
<u>%</u>	M M	_		aine He	β		L			1	2	ဂ္ဂ	<u> </u>		$\perp$					ĺ	Analyze For:
be	Je S	Level 3		S S	S 20						Z	4				- [	- 1			-	F
dus	25 25	3	1	ntac	èce						ぃ	9					l				ā
mitte	anaç	Ì	:	<b>B</b> 33	βť		_						_		┵	_	_				
ğ	ब्															ļ	İ				
							$\vdash$	- ,	ı			_		+	+						
								ł							ı	- {					
		ē												1	╁	T				۲	
		Level 4																		1	
		İ												Τ.,	Т					ļ	
	_							_		_					-	)  -	<u>,</u>	<del>,</del>			-
	NO L								- 1					1 L Glass	i riasuc		1 Plastic	Plastic			1
T	Ì							_	_					SS	S.	<u> </u>	<del>†</del>	5		_	╝
F.	Flow (MGD):		-	< ≺										×			]:	×	RUSH TAT (Pre-Schedule) *		_
		0#												5	+	$\dashv$	<del> </del>	v	ȚAT request (in Bus, Days)		
		Other	2	z			$\dashv$	-					-		T	1			Fax Results (yes or no)		
														T	1	7	$\dashv$		Due Date of Report		
<u> </u>								L						1	Ţ					1	
															۲a	age	16	0 0	f 18		

Outfall 01 A Outfall 01 A - TSS-3 Outfall 01 A - TSS-2 Outfall 01 A - TSS-1 Sample ID or Field ID

Comments/Special Instructions:
Laboratory case narative to NELAC Institute standard protocol,

Prepared vsreng 01A

Svss: PRIORITY OVERNIGHT Master 4955 3544 9549 TRCK: 4955 3544 9700

Ref:

Date: 13Jan12 Wgt: 10.00 LBS

0.00

SHIPPING: SPECIAL: HANDLING: TOTAL:

Prepared vsreng 01A

# Appendix E

# Required MLs for Samples from Outfalls O1A and 01C to Accompany Chain of Custody

Polycyclic Aromatic Hydrocarbons

Group I	Permit Required Minimum Level for Analysis, ug/L
Benzo(a)anthracene	<0.05
Benzo(a)pyrene	<0.05
Benzo(b)fluoranthene	<0.05
Benzo(k)fluoranthene	<0.05
Chrysene	<0.5
Dibenzo(a,h)anthracene	<0.10
Indeno(1,2,3-cd)pyrene	<0.10
Group II	Permit Required Minimum Level for Analysis, ug/L
Acenaphthene	<5.00
Acenephthylene	<5.00
Anthracene	<2.0
Benzo(ghi)perylene	<0.2
Fluoranthene	<0.50
Fluorene	<0.5
Naphthalene	<5.00
Phenanthrene	<2.00
Pyrene	<1.00
Other	Permit Required Minimum Level for Analysis, ug/L
Available Cyanide	< 2.00
Total Mercury (Hg)	< 2.00
Methyl Tertiary-Butyl Ether (MTBE)	< 5.00

# **Login Sample Receipt Checklist**

Client: Exxon Global Remed. Grp Job Number: 490-2442-1

Login Number: 2442 List Source: TestAmerica Nashville

List Number: 1 Creator: Ford, Easton

Question Answer Comm
Radioactivity either was not measured or, if measured, is at or below background N/A
The cooler's custody seal, if present, is intact.
The cooler or samples do not appear to have been compromised or tampered with.
Samples were received on ice.
Cooler Temperature is acceptable. True
Cooler Temperature is recorded. True
COC is present. True
COC is filled out in ink and legible.
COC is filled out with all pertinent information.
Is the Field Sampler's name present on COC?
There are no discrepancies between the sample IDs on the containers and the COC.
Samples are received within Holding Time.
Sample containers have legible labels. True
Containers are not broken or leaking.
Sample collection date/times are provided.  True
Appropriate sample containers are used. True
Sample bottles are completely filled. True
Sample Preservation Verified. N/A
There is sufficient vol. for all requested analyses, incl. any requested  MS/MSDs  True
VOA sample vials do not have headspace or bubble is <6mm (1/4") in N/A diameter.
Multiphasic samples are not present. True
Samples do not require splitting or compositing.
Residual Chlorine Checked. N/A

5

6

Ŏ

10

15